

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 4

## Complete if Known

Application Number	10/043,337
Filing Date	January 14, 2002
First Named Inventor	Wayne Ernest Conrad
Group Art Unit	1724
Examiner Name	Richard L. Chiesa
Attorney Docket Number	12811-039

## U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
R.L.C.		US- 450,372	4/1891	Morse	
		US- 883,413	3/1908	Mahony	
		US- 1,023,082	4/1912	Kluge	
		US- 1,127,896	2/1915	Keller	
		US- 1,369,939	3/1921	Shaffer	
		US- 1,752,231	3/1930	Clarkson	
		US- 1,759,947	5/1930	Lee	
		US- 1,798,510	3/1931	Winslow et al.	
		US- 1,826,798	10/1931	Lee	
		US- 1,897,144	2/1933	Prouty	
		US- 1,937,765	12/1933	Leathers	
		US- 2,014,287	10/1935	Newman	
		US- 2,143,421	1/1939	Loehr et al.	
		US- 2,171,248	9/1939	Van Berkel	
		US- 2,267,764	12/1941	Taylor	
		US- 2,300,266	10/1942	Smellie	
		US- 2,392,872	1/1946	Wolfe	
		US- 2,397,872	4/1946	Kovacs	
		US- 2,397,980	4/1946	Petri	
		US- 2,402,845	6/1946	Rodman	

## FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
R.L.C.		CA 54488 ✓	5/1985	PROTOTYPES		
R.L.C.		CA 2104136 ✓	6/1994	NORDEUTSCHE		
R.L.C.		CA 2156069 ✓	6/1996	PAMENTIER ET		
R.L.C.		DK 52195 ✓	9/1936	KING		
R.L.C.		DK 69708 ✓	8/1949	AKTIEBOLAGET		
R.L.C.		EP 0836 827 ✓	4/1998	FUMAGALLI		
R.L.C.		EP 0 839 489 ✓	5/1998	AEG		
R.L.C.		FR 1 094 603 ✓	5/1955	MARTELLIERE		
		GB 762070 ✓	10/1956	CRAMPTON		

Examiner  
Signature

Richard L. Chiesa

Date  
Considered

Aug. 7, 2003

<sup>1</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>2</sup> Applicant's unique citation designation number (optional). <sup>3</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

RECEIVED

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE          STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		<b>Complete if Known</b>			
		Application Number	10/043,337		
		Filing Date	January 14, 2002		
		First Named Inventor	Wayne Ernest Conrad		
		Group Art Unit	1724		
		Examiner Name	Richard L. Chiesa		
Sheet	2	of	4	Attorney Docket Number	12811-039

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
R. L. C.		US- 2,405,625	8/1946	Whiton et al.	
		US- 2,595,752	5/1952	Batts	
		US- 2,608,268	8/1952	Gerber	
		US- 2,672,642	3/1954	Tamarin et al.	
		US- 2,681,124	6/1954	Van de Kolk	
		US- 2,822,060	2/1958	Udovich	
		US- 2,993,223	7/1961	Krammes	
		US- D197,459	2/1964	Jepson et al.	
		US- 3,200,568	8/1965	McNeil	
		US- 3,235,090	2/1966	Bose et al.	
		US- 3,283,480	11/1966	Szego	
		US- 3,320,727	5/1967	Farley et al.	
		US- 3,501,014	3/1970	Fitch, Jr. et al.	
		US- 3,535,854	10/1970	Taylor	
		US- 3,675,268	7/1972	Nordeen	
		US- 3,853,518	12/1974	Tu et al.	
		US- 3,877,902	4/1975	Eriksson et al.	
		US- 3,925,045	12/1975	Cheng	
		US- 3,955,236	5/1976	Mekelburg	
		US- 4,005,998	2/1977	Gorman	

FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
R. L. C.		SU 148023 ✓	1961	—		
		SU 1042812 ✓	9/1983	—		
		WO 95/16382 ✓	6/1995	RENCH ET AL		
		WO 96/22726 ✓	1/1996	DYSON		
		WO 96/19936 ✓	4/1996	DYSON		
		WO 96/19937 ✓	4/1996	DYSON		
		WO 96/19293 ✓	1/1996	DYSON ET AL		
		WO 96/19294 ✓	6/1996	DYSON ET AL		
R. L. C.		WO 96/21389 ✓	7/1996	DYSON		

Examiner Signature	Richard L. Chiesa	Date Considered	Aug. 7, 2003
-----------------------	-------------------	--------------------	--------------

<sup>1</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>2</sup> Applicant's unique citation designation number (optional). <sup>3</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/043,337
				Filing Date	January 14, 2002
				First Named Inventor	Wayne Ernest Conrad
				Group Art Unit	1724
				Examiner Name	Richard L. Chiesa
(use as many sheets as necessary)				Attorney Docket Number	12811-039
Sheet	3	of	4		

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
R.L.C.		US- 4,141,698	2/1979	Kihlstedt et al.	
		US- 4,162,149	7/1979	Mekelburg	
		US- 4,198,290	4/1980	Summers	
		US- 4,251,368	2/1981	Colman et al.	
		US- 4,268,288	5/1981	Coombs	
		US- 4,326,862	4/1982	Suzuki	
		US- 4,345,572	8/1982	Suzuki et al.	
		US- 4,352,681	10/1982	Dietz	
		US- 4,377,882	3/1983	Dyson	
		US- 4,390,426	6/1983	Vicard	
		US- 4,398,928	8/1983	Kunsagi	
		US- 4,443,234	4/1984	Carlsson	
		US- 4,588,423	5/1986	Gillingham et al.	
		US- 4,665,582	5/1987	Richmond et al.	
		US- 4,756,729	7/1988	Brunnmair et al.	
		US- D305,269	12/1989	Dyson	
		US- 4,905,341	3/1990	Sunagawa et al.	
		US- 5,101,532	4/1992	Dyson et al	
		US- D343,707	1/1994	Dyson	
	R.L.C.	US- 5,350,432	9/1994	Lee	

FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
R.L.C.		WO 98/02080	1/1998	DYSON ET AL		
R.L.C.		WO 98/27857	7/1998	DYSON		
R.L.C.		WO 98/10691	3/1998	DYSON ET AL		
R.L.C.		WO 98/23381	6/1998	BURLINGTON ET AL		
R.L.C.		WO 98/33424	8/1998	DYSON		

Examiner Signature	Richard L. Chiesa	Date Considered	Aug. 7, 2003
--------------------	-------------------	-----------------	--------------

<sup>1</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>2</sup> Applicant's unique citation designation number (optional). <sup>3</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 4

of 4

**Complete if Known**

Application Number	10/043,337
Filing Date	January 14, 2002
First Named Inventor	Wayne Ernest Conrad
Group Art Unit	1724
Examiner Name	Richard L. Chiesa
Attorney Docket Number	12811-039

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
R. L. C.		US- 5,564,160	10/1996	Luebbering	
		US- 5,584,095	12/1996	Redding et al.	
		US- 5,591,253	1/1997	Altman et al.	
		US- D382,679	8/1997	Dyson	
		US- 5,755,007	5/1998	Dyson	
		US- 5,840,103	11/1998	Dyson	
		US- 5,935,279	8/1999	Kilström	
		US- 6,003,196	12/1999	Wright et al.	
		US- 6,012,200	1/2000	Murphy et al.	
R. L. C.		US- 6,083,292	7/2000	Fumagalli	
		US- 6,146,434	11/2000	Scaffani et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				

Examiner Signature	<i>Richard L. Chiesa</i>	Date Considered	<i>Aug. 7, 2003</i>
-----------------------	--------------------------	--------------------	---------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.